

FIG. 1 Prior Art

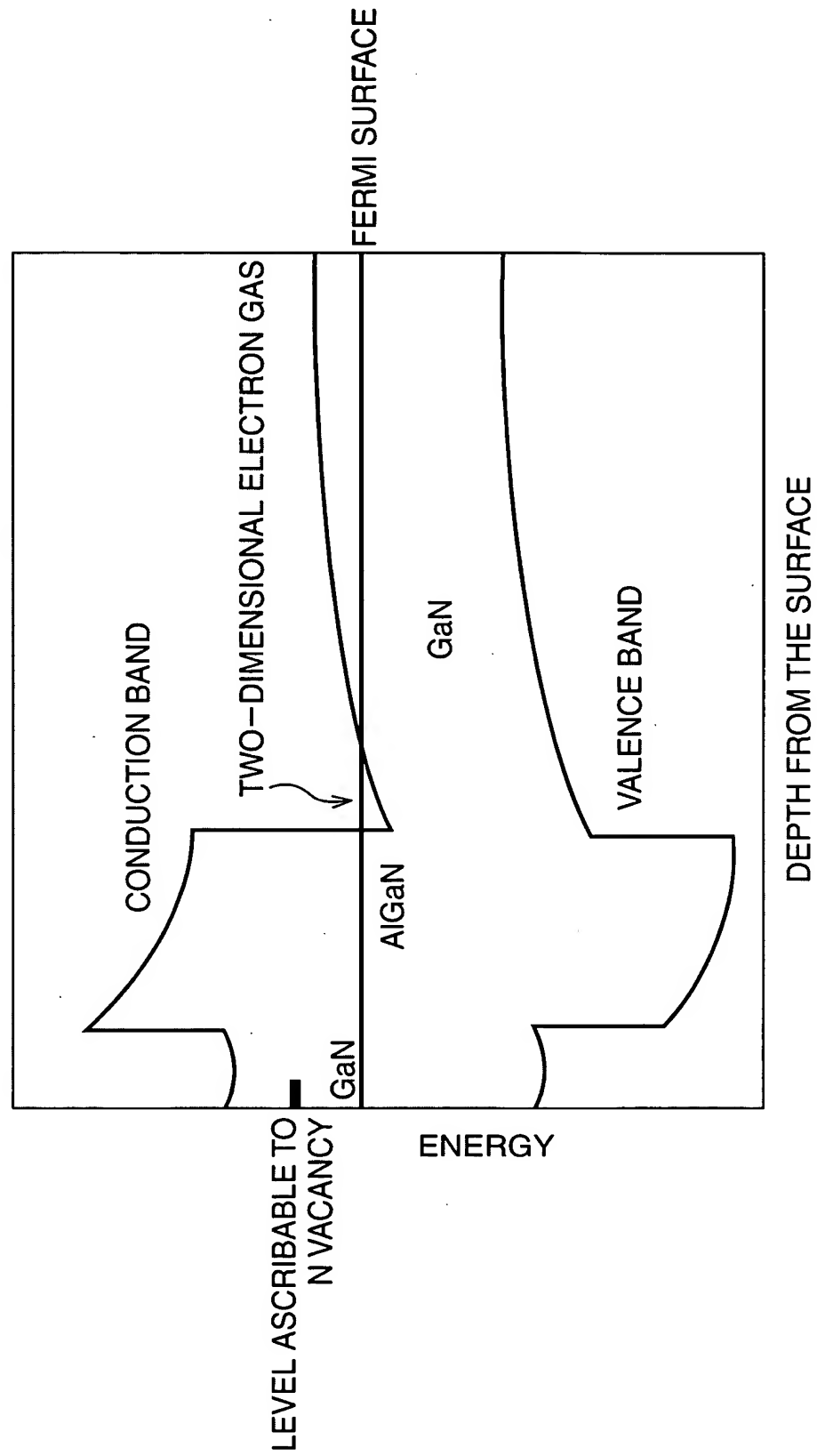


FIG. 2

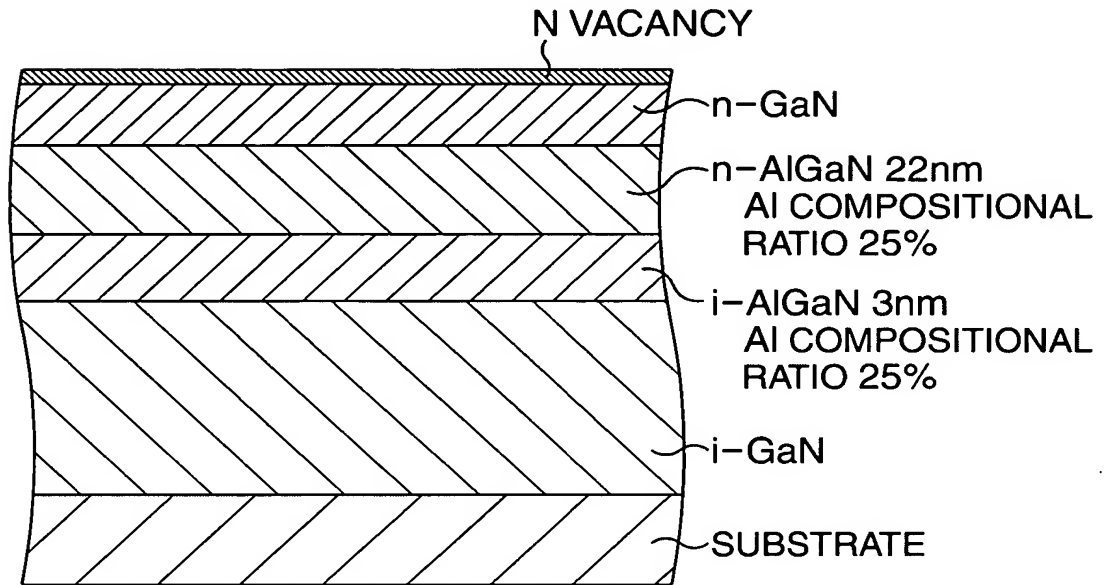


FIG. 3

SURFACE ROUGHNESS (nm)=2.15 * x * d (nm)

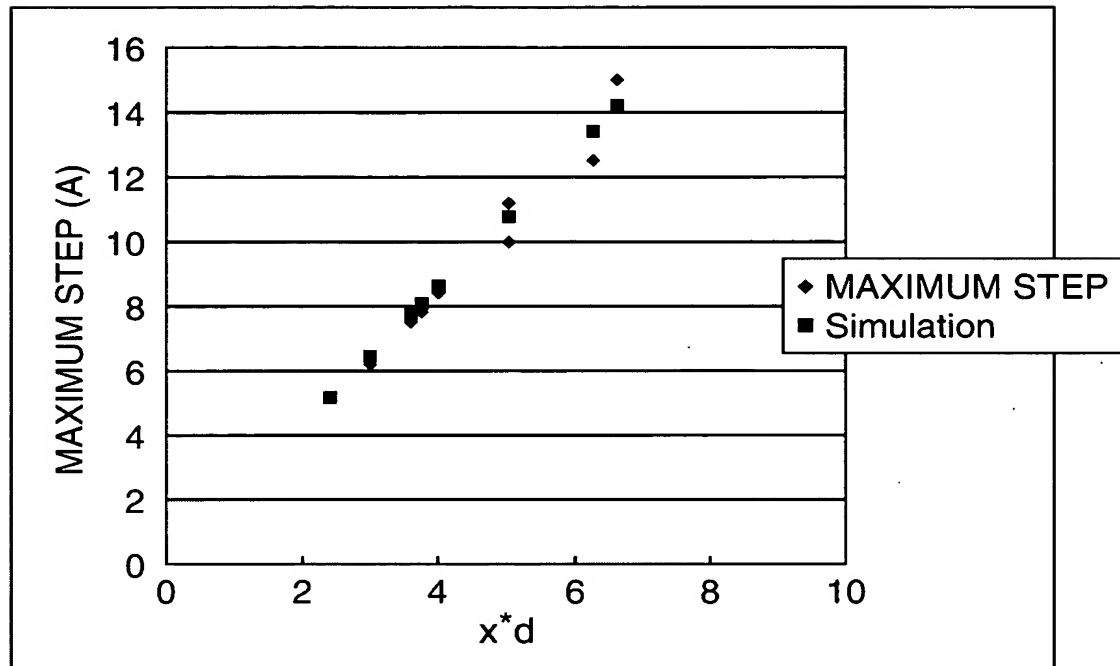


FIG. 4

REVERSE GATE LEAKAGE ($\mu\text{A}/\text{mm}$)
(@ $V_g = -5\text{V}$) = $1.8\text{E}-6 \cdot 10^{(2.15 \cdot x \cdot d \cdot (\text{nm}))}$

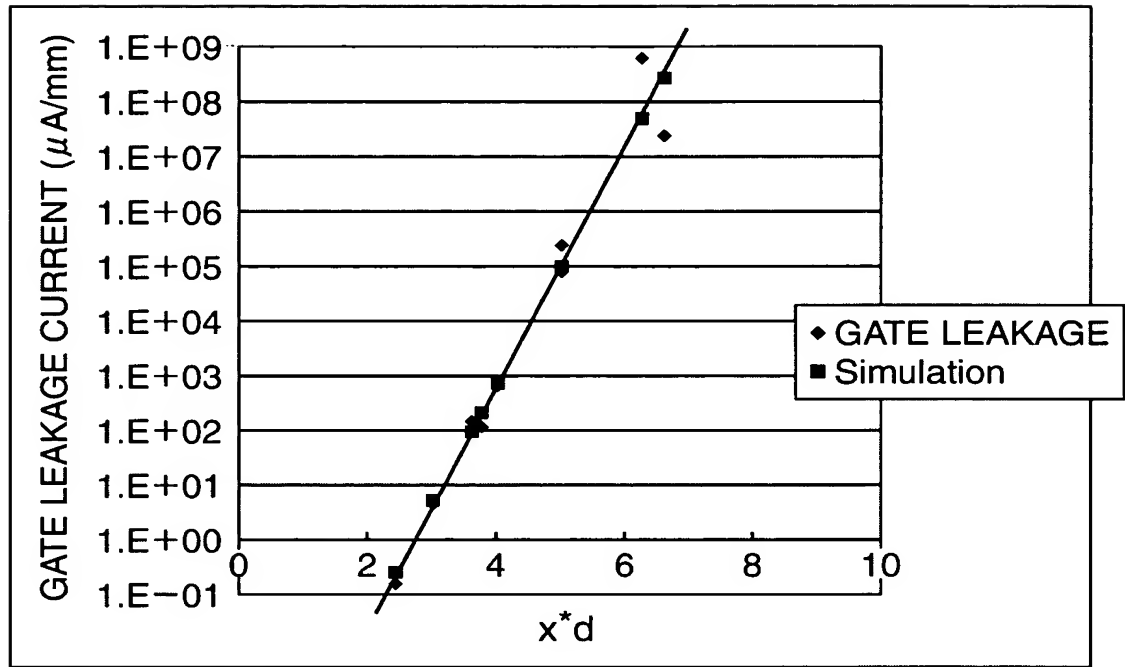


FIG. 5

PIEZO ELECTRONIC EFFECT+SPONTANEOUS POLARIZATION(cm^{-2})= $3\text{e}13*\log(12*x)$

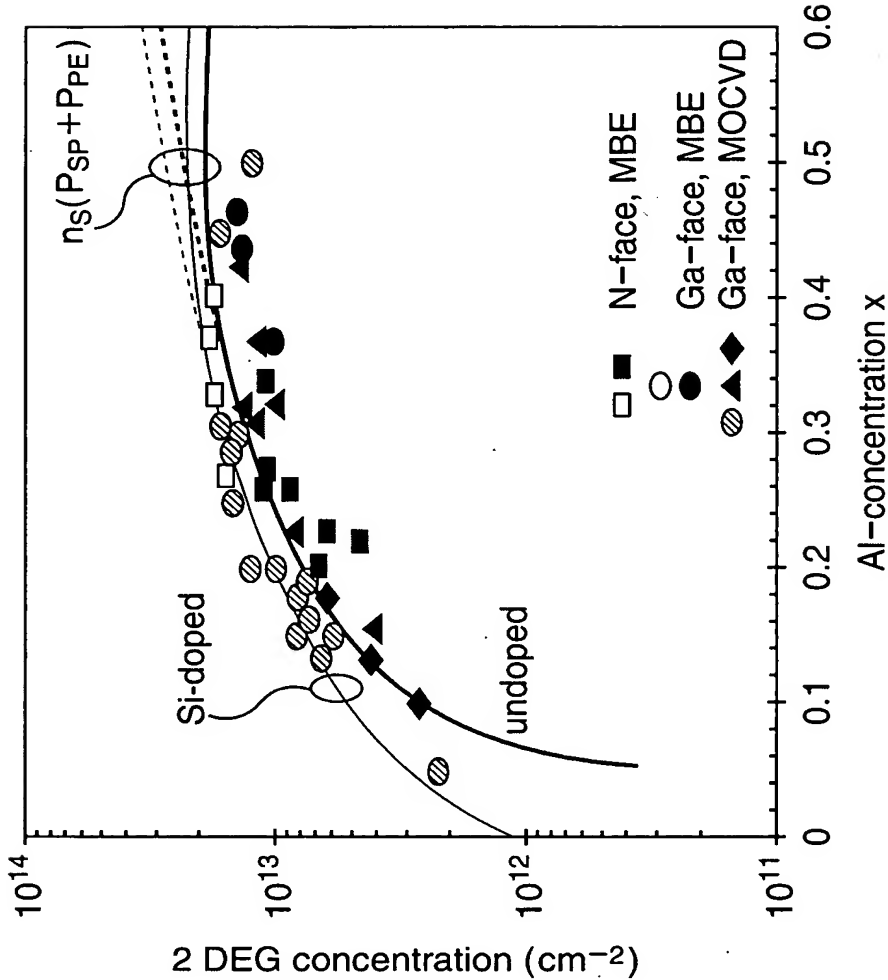


FIG. 6

SURFACE TRAP DENSITY (cm^{-2}) = $2.7 \times 10^{12} \times (0.05 \times x \times d \text{ (nm)})$

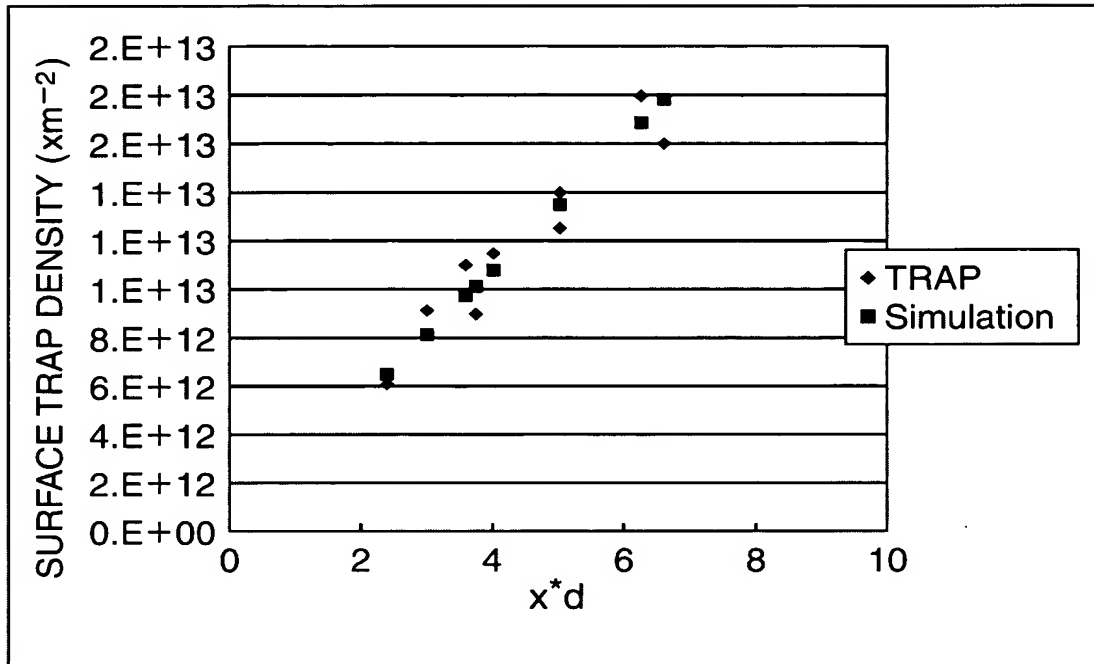


FIG. 7

CURRENT COLLAPSE : $1e-6 \cdot Nd \cdot d \text{ (nm)} / 4 - 2.7e12 \cdot (0.05 \cdot x \cdot d \text{ (nm)})$

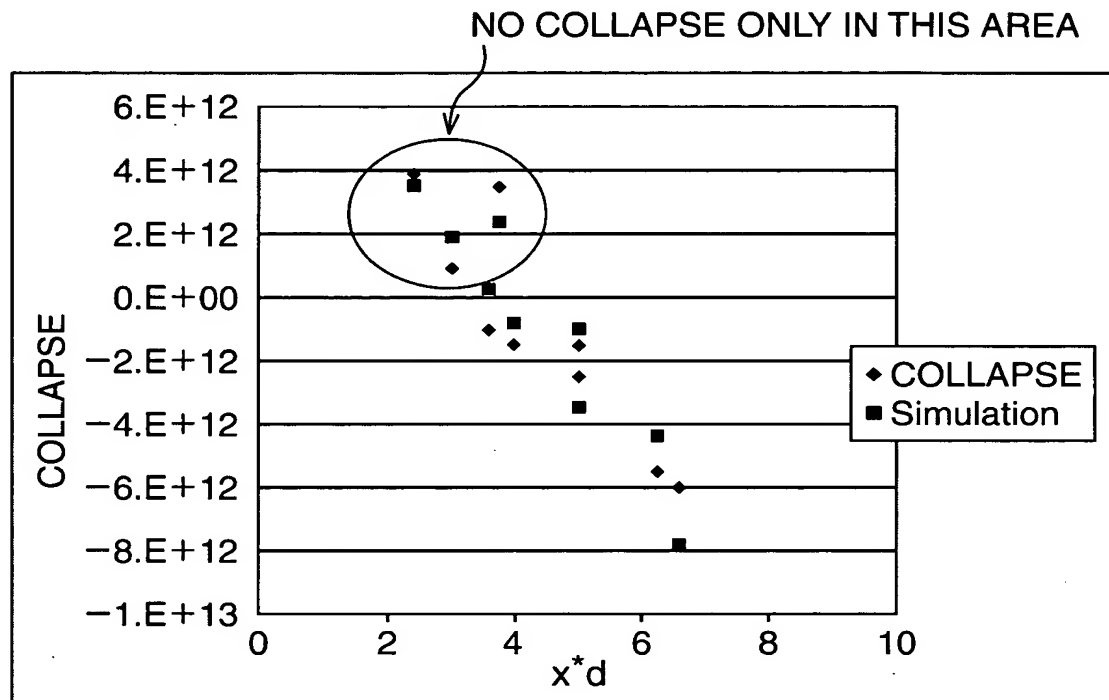


FIG. 8

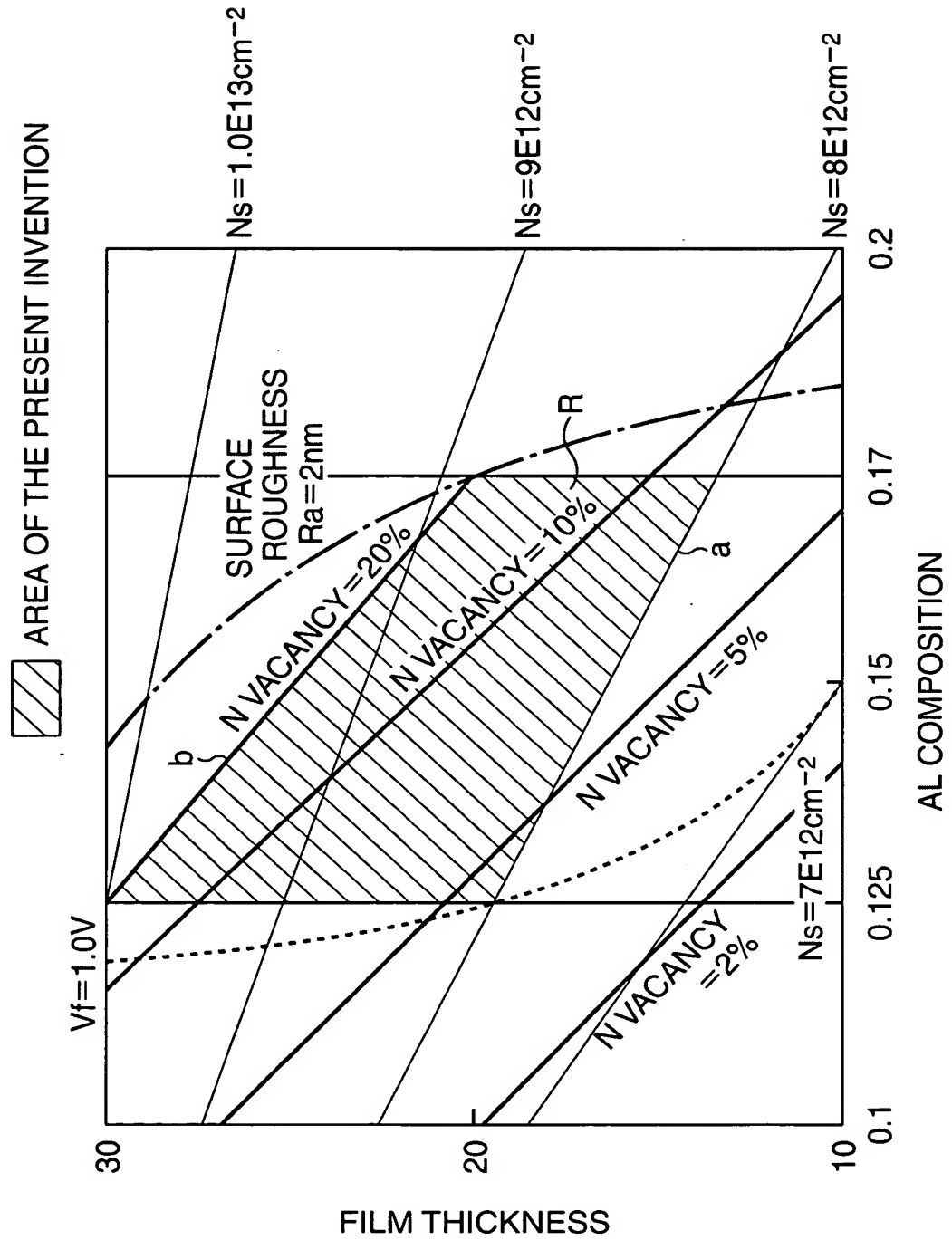


FIG. 9

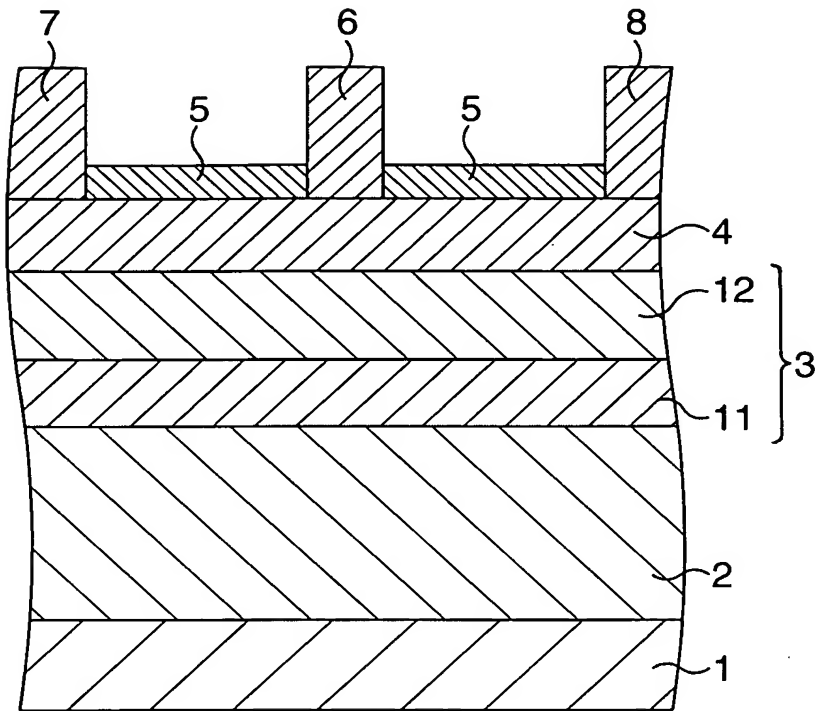


FIG. 10

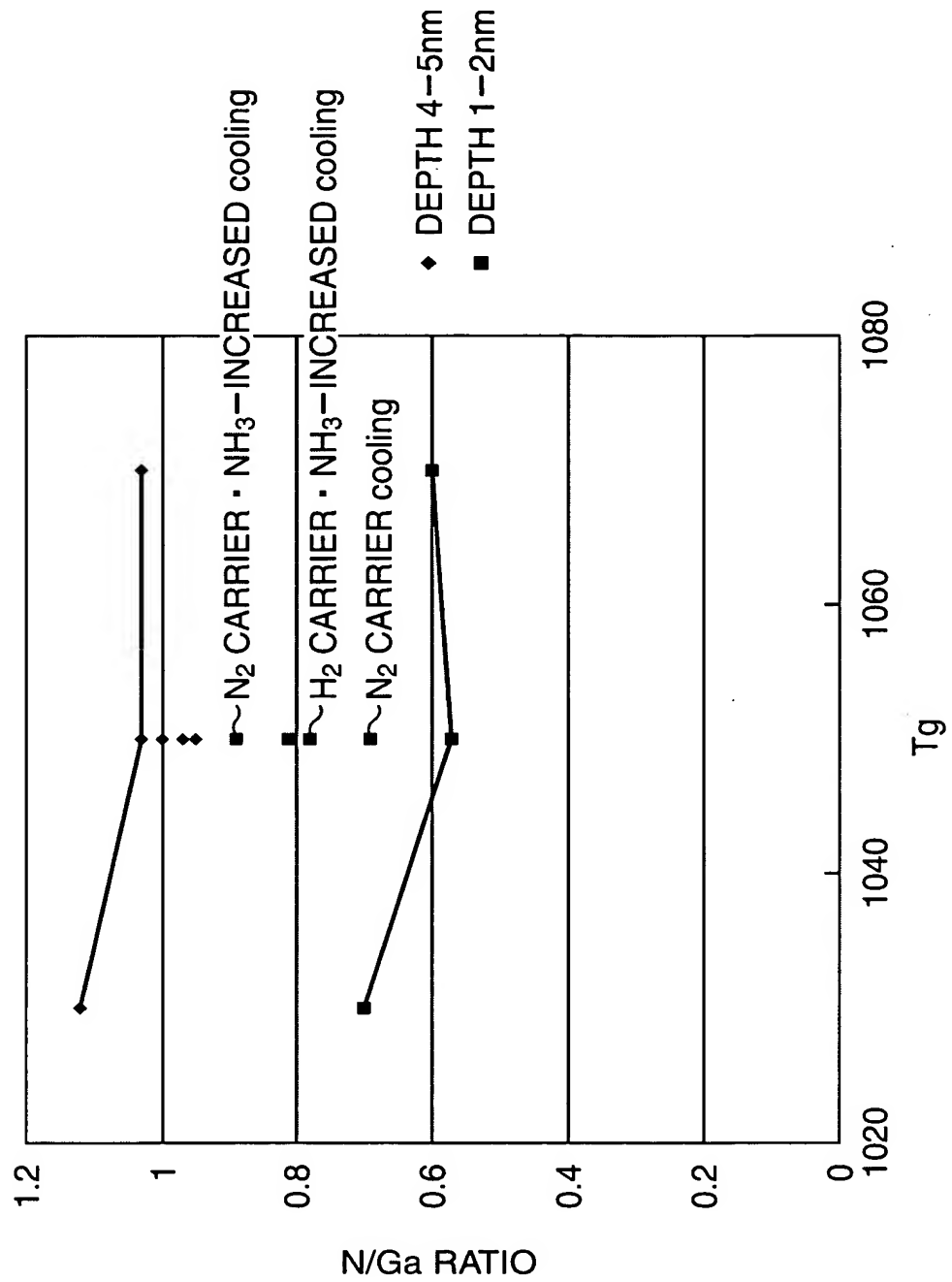


FIG. 11 Prior Art

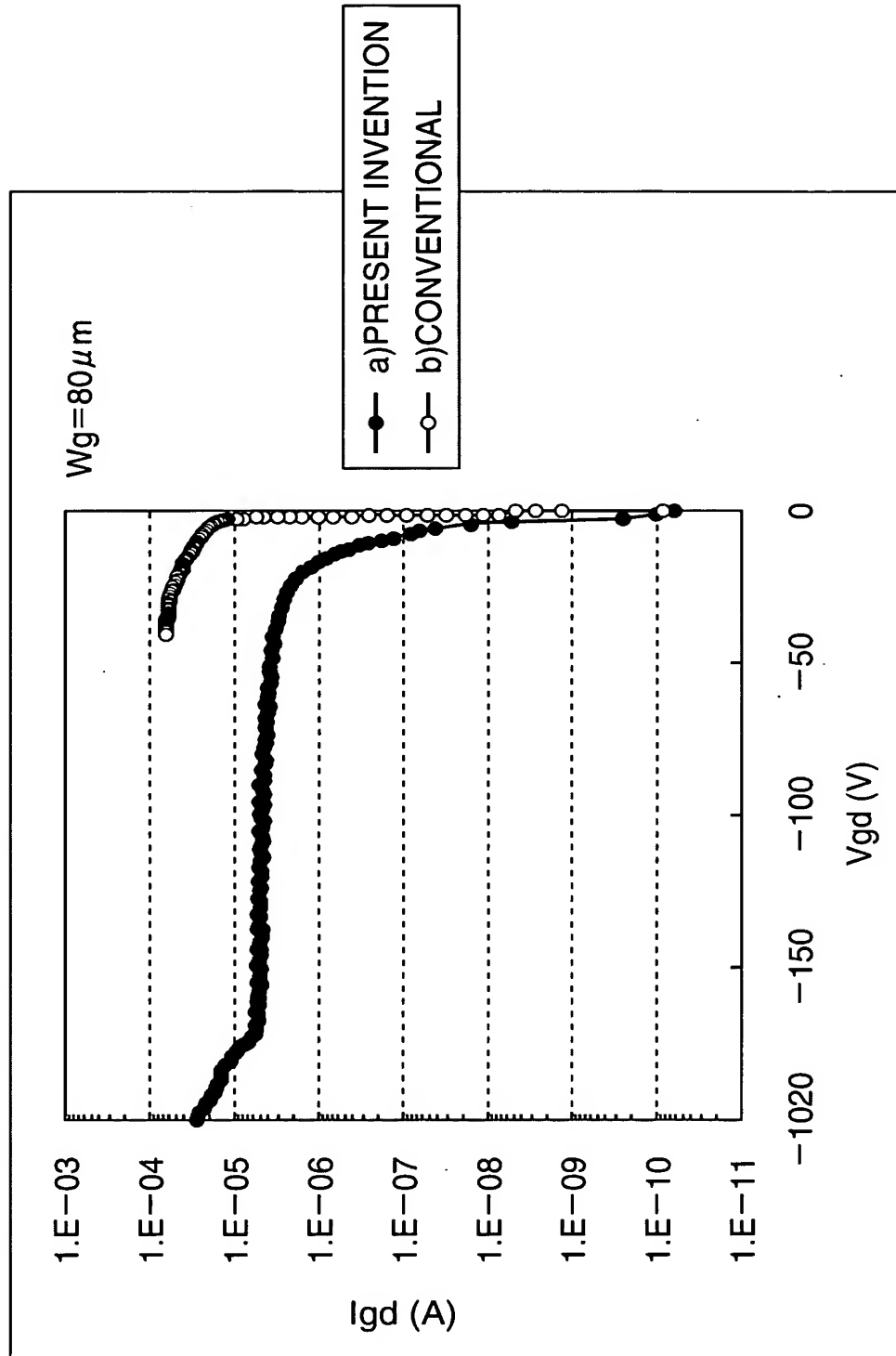


FIG. 12 Prior Art

